

A LIST OF THE KNOWN SPECIES OF *CLAUSILIA* FROM CHINA.

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THE British Museum received from Mr. W. L. Distant in October, 1913, a large *Clausilia*, 50 mm. in length, which he was informed came from Central China. Further inquiry was made, and the Rev. A. Arthur Elwin stated that he collected it among trees 400 feet above the lake at Hangchow, about 150 miles south-west of Shanghai.

In the endeavour to name the specimen it became necessary to study the whole literature dealing with the *Clausiliæ* of China, with the result that it appeared to be new to the fauna.

However, on comparing it with the specimens of the Japanese *Cl. martensi*, Herklots, I could find no distinguishing characters, and therefore I was compelled to come to the conclusion that a mistake had occurred with regard to the locality, or, what is very improbable, it might have been accidentally imported from Japan.

Again I applied to the collector of the specimen, and he then wrote: "I believe I found the big *Clausilia* near the city of Hangchow in China, more than 25 years ago, but, as I made no special note of it at the time, I do not think it would be well to publish any definite account of it. I have never received any shells from Japan, and did not collect any during the three summers I spent in that land."

Under these circumstances it may, I think, be concluded that the shell does not occur in China. However, since I have got together a list of the *Clausiliæ* of that country, its publication may, I hope, be useful to anyone engaged upon that part of the Chinese fauna. As many as 161 species appear to have been recorded. Père Heude heads the list of describers, having 66 species to his credit. Gredler follows with 32 species, Schmacker and Böttger conjointly are responsible for 19, Möllendorff for 17, Böttger for 7, Sykes for 4, Pfeiffer 3, Küster, Ancy, Benson, and Deshayes 2 each, and Menke, Martens, Philippi, H. Adams, and Preston a single species each.

In giving the following alphabetical list of the species I wish it to be understood that no attempt has been made to offer a synonymic catalogue. Doubtless some of the so-called species would fall as synonyms, but to ascertain this would entail a very long and careful study of all the numerous forms and the examination of authentic examples of a considerable proportion of them. The collection in the British Museum is very incomplete, and it may be mentioned that, of the sixty-six species described by Heude, only five are represented.

The numbers after the names in the list refer to the subjoined bibliography.

<i>acanthula</i> , Hde., 24.	<i>adaucta</i> , Gredler, 20.
<i>aculus</i> , Benson, 5.	<i>albopapillata</i> , Schm. & Bttgr., 42.
„ var. <i>labio</i> , Gredler, 22a.	syn. <i>papillina</i> , Gredler, 21.
„ var. <i>papillana</i> , Gredler, 22a.	<i>anceyi</i> , Bttgr., 9.

- antelopina*, Hde., 24.
aplostoma, Hde., 24.
aprivora, Hde., 24, 25.
ardouiniana, Hde., 24.
artifina, Hde., 24.
basilissa, Schm. & Bttgr., 43.
baziniana, Hde., 24, 26.
belemnites, Schm. & Bttgr., 43.
bensoni, H. Ad., 1.
binaria, Hde., 24, 25.
bisdelineata, Hde., 24.
bocki, Sykes, 45.
breviplica, Mlldff., 34.
broderseni, Schm. & Bttgr., 43.
buccinella, Hde., 24, 25.
bulimina, Gredler, 23a.
cavicola, Gredler, 17.
cecillei, Philippi, 40.
celsa, Gredler, 23a.
celivora, Hde., 24.
chinensis, Pfr., 37 (1849).
 „ Mlldff., 29a (1874).
cholorigena, Hde., 24, 26.
circinnata, Hde., 24.
clarocincta, Bttgr., 8.
clavulus, Hde., 24, 25.
coccygea, Gredler, 17.
 „ var. *ecaudata*, 22a.
cælicola, Gredler, 18a, 21, 22a.
columbeliana, Hde., 24.
comminuta, Hde., 24, 26.
constellata, Hde., 24, 25.
cookei, Preston, 41.
crobylodes, Schm. & Bttgr., 42.
cylindrella, Hde., 24, 25.
decurtata, Hde., and vars., 24.
delavayana, Hde., 24.
diaconalis, Hde., 24, 26.
distorta, Küster, 27.
eastlakeana, Mlldff., 31.
elamellata, Schm. & Bttgr., 43.
elator, Ancey, 2.
elizabethæ, Mlldff., 30.
faberi, Schm. & Bttgr., 43.
fargesiana, Hde., 24.
fargesianella, Hde., 24.
flippina, Hde., 24.
 „ var. *socia*, Gredler, 22a.
fitzgeraldæ, Bttgr., 7.
flavescens, Hde., 1884, 25a.
 = *straminea*, Hde., preoc.
fortunei, Pfr., 38.
franciscana, Mlldff., 36.
frankei, Schm. & Bttgr., 43.
frater minor, Gredler, 23a.
frigida, Hde., 1884, 25a.
 = *septemplicata*, Hde., preoc.
friniana, Hde., 24.
fuchsi, Gredler, and var., 15, 18a.
fuchsi, var. *kaspari*, 22a.
fuchsiana, Hde., 24.
fulvella, Hde., 24.
gastroptychia, Mlldff., 33.
gemina, Gredler, 13.
gerlachi, Mlldff., 30.
gigas, Mlldff., 36.
hainanensis, Mlldff., 33, 35.
hensaniensis, Gredler, 22.
heidiana, Mlldff., 1882, 32.
 = *pachystoma*, Hde., preoc.
hunana (Gredler), Hde., 24, 1882.
hupeana, Gredler, 23, 23a.
hupecola, Gredler, 17.
imperatrix, Schm. & Bttgr., 43.
indurata, Hde., 24, 25.
infantilis, Gredler, 21.
infecta, Hde., 24, 25.
insularis, Hde., 24.
inversa, Hde., 24, 25.
janseniana, Hde., 24.
julii, Gredler, 17.
kiangshiensis, Gredler, 23a.
labrosa, Hde., 25.
labyrinthoides, Sykes, 46.
largillierii, Philippi, 40.
latilunellaris, Schm. & Bttgr., 43.
laurentiana, Mlldff., 36.
lea, Gredler, 23a.
lepidospira, Hde., and var., 24, 26.
leucospira, Hde., 24.
loczyi, Bttgr., 10.
loloensis, Hde., 24.
longispina, Hde., 24.
longurio, Schm. & Bttgr., 43.
lorraini, Menke, 29.
lunatica, Hde., 24.
lyra, Gredler, 19.
magnaciana, Hde., 24.
magnacianella, Hde., 24.
margaritacea, Hde., 25.
meroniana, Hde., 24.
microstoma, Küster, 27; Gredler, 17a;
 Mlldff., 32.
microthyra, Schm. & Bttgr., 44.
missionis, Ancey, 1883, 4.
 = *straminea*, Hde., preoc.
müllendorffi, Martens, 28.
 = *chinensis*, Mlldff., non Pfr.
müllendorffiana, Hde., 24.
moschina, Gredler, 17.
 „ var. *chamelodonta*, 22a.
mucronata, Mlldff., 31.
nankingensis, Hde., 24.
orphanuli, Hde., 24.
oscariana, Gredler, 23a.
pachyodon, Hde., 1884, 25a.
 = *pachystoma*, Hde., preoc.
pachystoma, Hde., preoc., 24.

- pacifica*, Gredler, 18.
 „ var. *siantanensis*, 22a.
pagnucciana, Hde., 24.
pallidocincta, Mldff., 34.
papillina, Gredler, 18a, 21.
paradoxa, Gredler, 15.
parietaria, Schm. & Bttgr., 42.
phyllostoma, Hde., 24.
planostriata, Hde., 24.
pluviatilis, Benson, 5.
ponsonbyi, Bttgr., 8.
porphyria, Mldff., 31.
præcelsa, Gredler, 16.
 „ var. *minor*, 22a.
presbyteralis, Gredler, 23a.
principalis, Gredler, 13.
 „ var. *cristina*, 22a.
protrita, Gredler, 19.
provisoria, Gredler, 17.
pseudobensoni, Schm. & Bttgr., 43.
psilodonta, Hde., 24, 26.
ptychochila, Bttgr., 6.
ptychodon, Ancey, 3.
purpurascens, Mldff., 36.
rathousiana, Hde., 24.
recedens, Schm. & Bttgr., 43.
recens, Gredler, 23.
retorta, Hde., 24.
ridicula, Gredler, 14.
ringens, Schm. & Bttgr., 42.
ruptiva, Hde., 26.
rustica, Hde., 24, 26.
rutilans, Mldff., Gredler, 17a.
sarcochila, Ancey, 1883, 4.
 = *pachystoma*, Hde., preoc.
scholastica, Hde., 26.
schombergi, Schm. & Bttgr., 42.
seguiniana, Hde., 24.
sempriini, Gredler, 18.
 „ var. *minor*, 22a.
septemlamellata, Ancey, 1883, 4.
 = *septemplicata*, Hde., preoc.
septemplicata, Hde., preoc., 24.
serrata, Deshayes, 12.
shanghaiensis, Pfr., 39.
siderea, Hde., 24, 25.
simiola, Gredler, 15.
spinula, Hde., 24.
straminea, Hde., preoc., 24.
strictilabris, Schm. & Bttgr., 42.
succinea, Hde., 24, 25.
superaddita, Hde., 24.
tau, Bttgr., 6.
tetsui, Schm. & Bttgr., 43.
thaleroptyx, Mldff., 31.
thibetiana, Deshayes, 12.
timalthea, Sykes, 46.
trachelostrophæ, Mldff., 36.
vinacea, Hde., 24.
vincotiana, Hde., 24.
vulpina, Hde., 24, 25.
yunnanensis, Sykes, 45.
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At some of the foregoing references, not only are new species described but others are critically discussed. For instance, Möllendorff's paper, No. 32, although containing no descriptions of new species, is very important, since it treats very fully upon a large proportion of the known forms from China. Gredler's paper (No. 22a) is useful also, since it contains a list of all the species and varieties described by him, with references to the publications in which the descriptions have appeared.

ERRATA.

June Number :

p. 276, last line, for 9-16 read 9-12.

p. 279, l. 16, for *Pterocera amantia* read *Pterocera aurantia*.